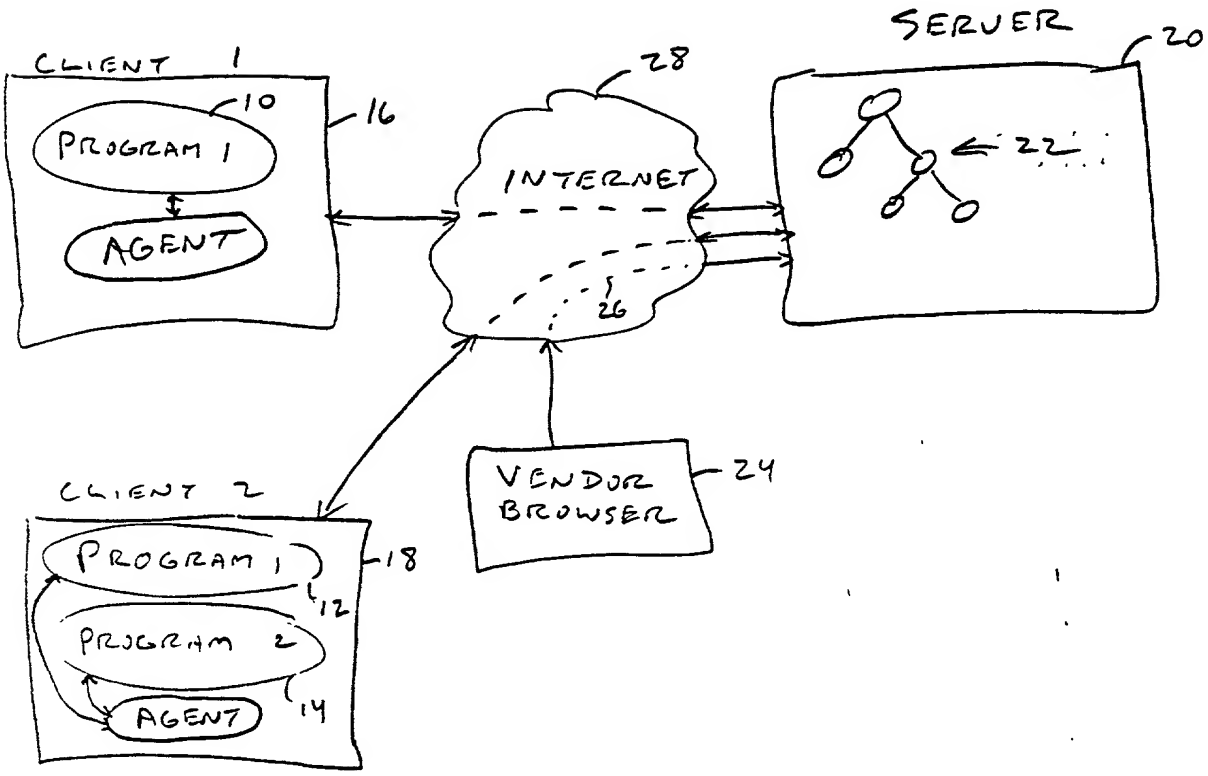


FIG. 1

TOTOT "2E04000T

EDITED-2004-0004

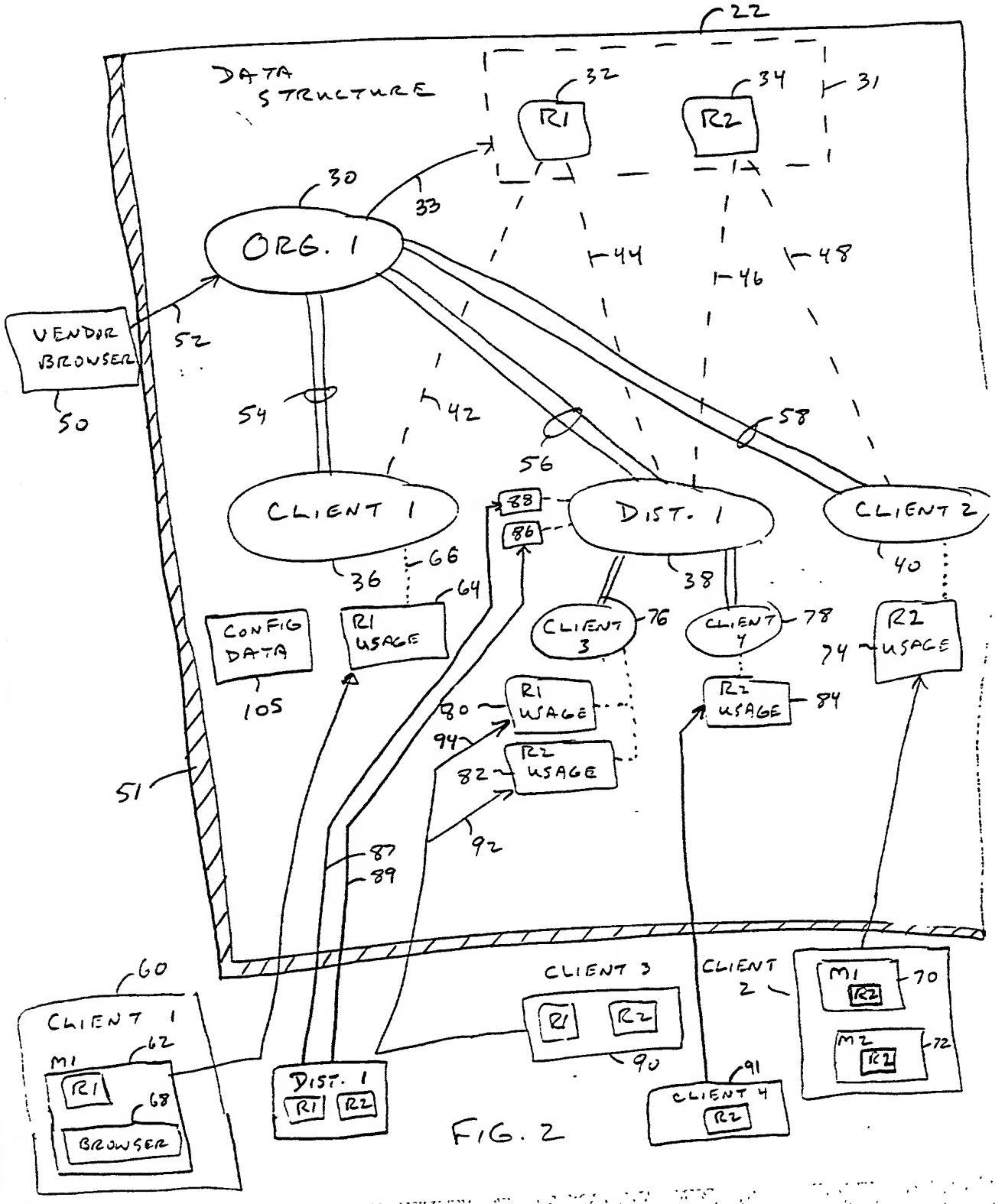


FIG. 2

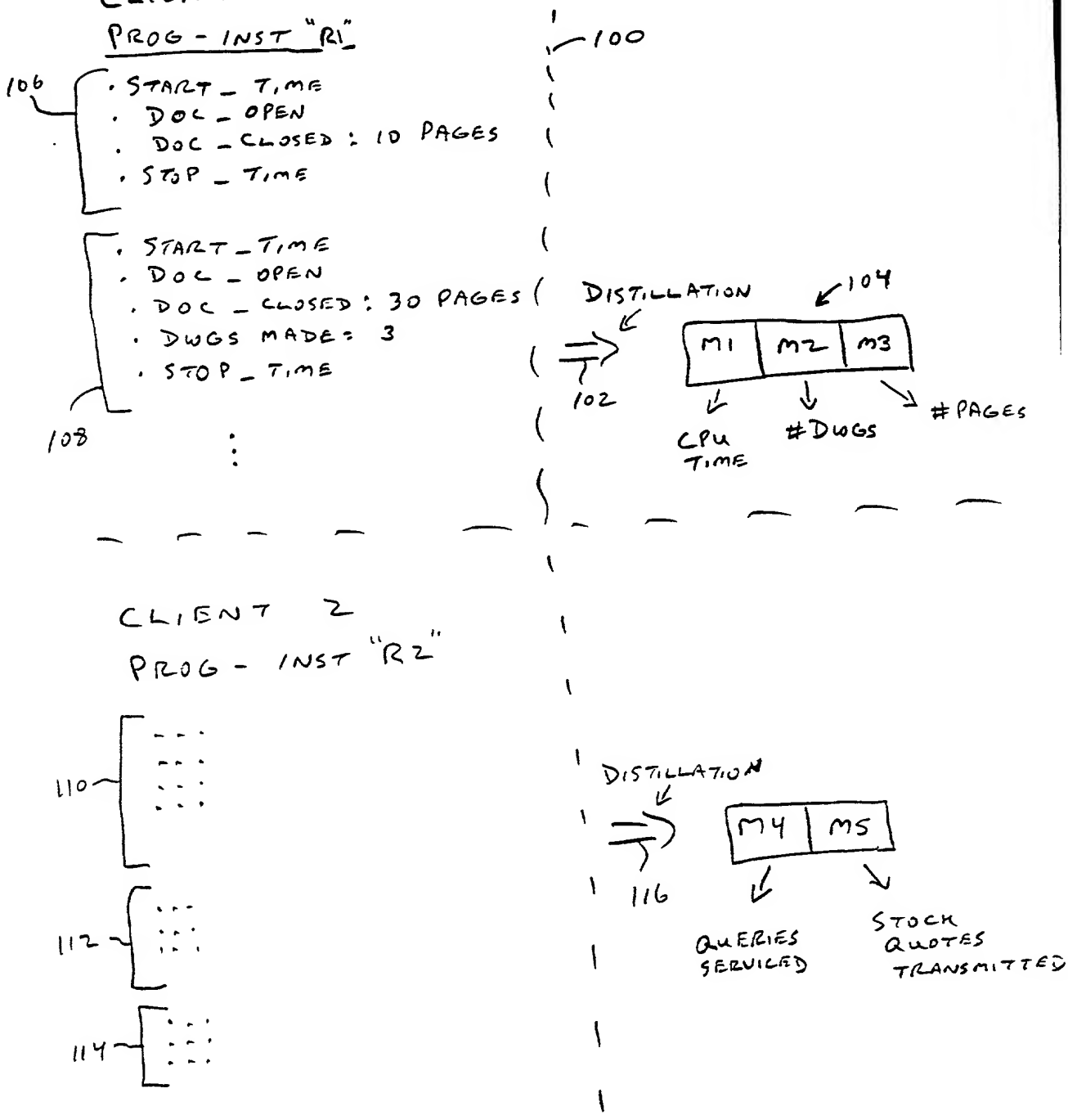

CLIENT 1
PROG - INST "R1"
100
106
• START_TIME
• DOC_OPEN
• DOC_CLOSED : 10 PAGES
• STOP_TIME
• START_TIME
• DOC_OPEN
• DOC_CLOSED : 30 PAGES
• DWGS MADE = 3
• STOP_TIME
108
DISTILLATION
104
M1
M2
M3
102
CPU TIME
#DWGS
#PAGES
CLIENT 2
PROG - INST "R2"
110
112
114
DISTILLATION
M4
M5
116
QUERIES SERVICED
STOCK QUOTES TRANSMITTED

FIG. 3

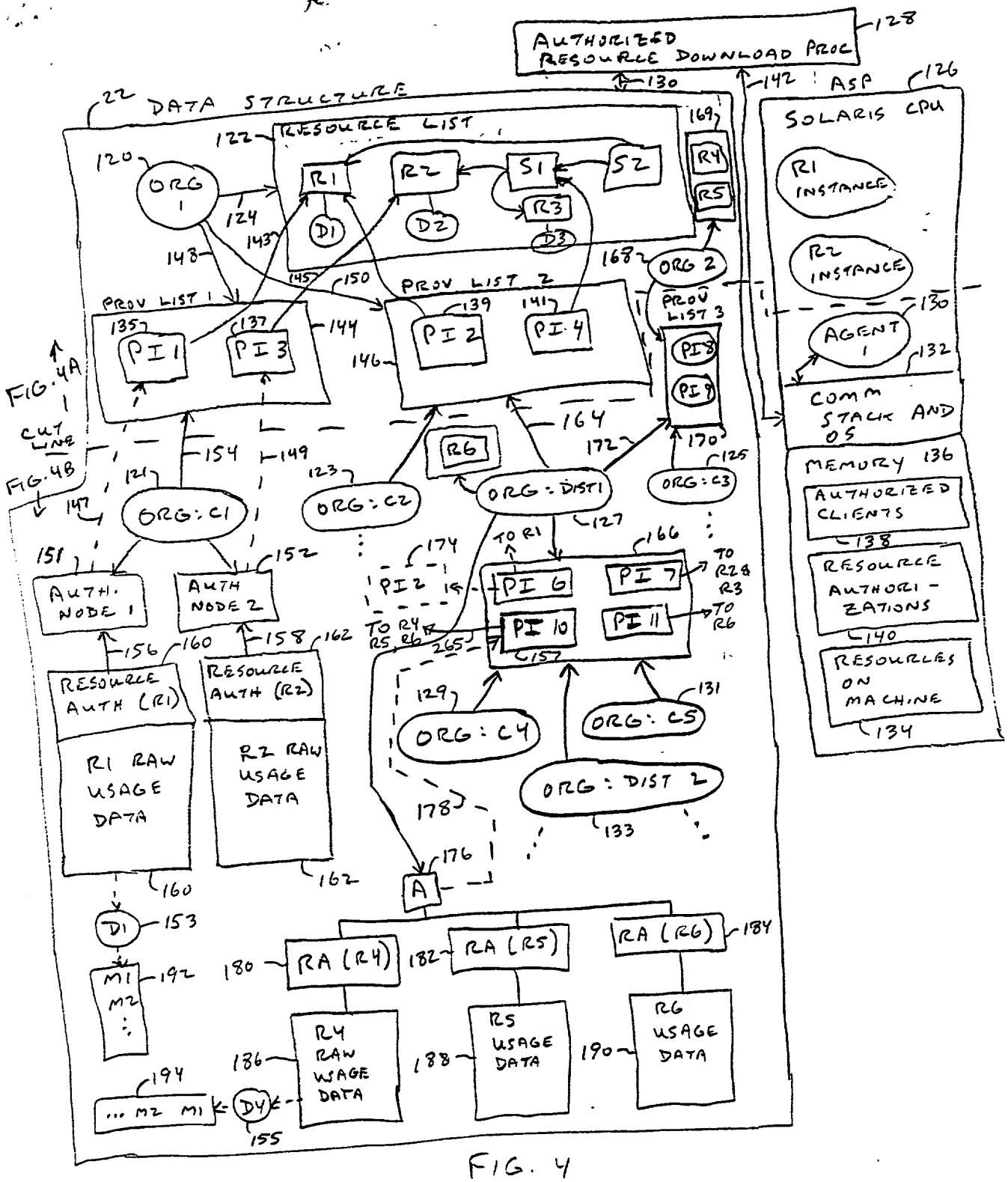

AUTHORIZED RESOURCE DOWNLOAD PROC
128
130
142
ASP
126
SOLARIS CPU
22
DATA STRUCTURE
RESOURCE LIST
122
169
120
ORG 1
124
143
148
145
150
R1
R2
S1
S2
R3
R4
R5
D1
D2
D3
PROV LIST 1
PROV LIST 2
PROV LIST 3
135
137
144
139
141
146
PI 1
PI 3
PI 2
PI 4
168
ORG 2
PI 5
PI 9
R1 INSTANCE
R2 INSTANCE
AGENT 1
132
COMM STACK AND OS
MEMORY 136
AUTHORIZED CLIENTS
138
RESOURCE AUTHORI-ZATIONS
140
RESOURCES ON MACHINE
134
FIG. 4A
CUT LINE
FIG. 4B
154
149
164
R6
172
170
125
121
123
147
ORG : C1
ORG : C2
ORG : DIST 1
ORG : C3
127
TO R1
151
152
174
166
AUTH. NODE 1
AUTH NODE 2
PI 2
PI 6
PI 7
TO R2 & R3
PI 10
PI 11
TO R4 R5 R6
156
160
158
162
265
157
RESOURCE AUTH (R1)
RESOURCE AUTH (R2)
R1 RAW USAGE DATA
R2 RAW USAGE DATA
129
131
ORG : C4
ORG : C5
ORG : DIST 2
178
133
176
A
D1
153
M1
M2
192
180
182
184
RA (R4)
RA (R5)
RA (R6)
R4 RAW USAGE DATA
R5 USAGE DATA
R6 USAGE DATA
186
188
190
194
... M2 M1
D4
155

FIG. 4

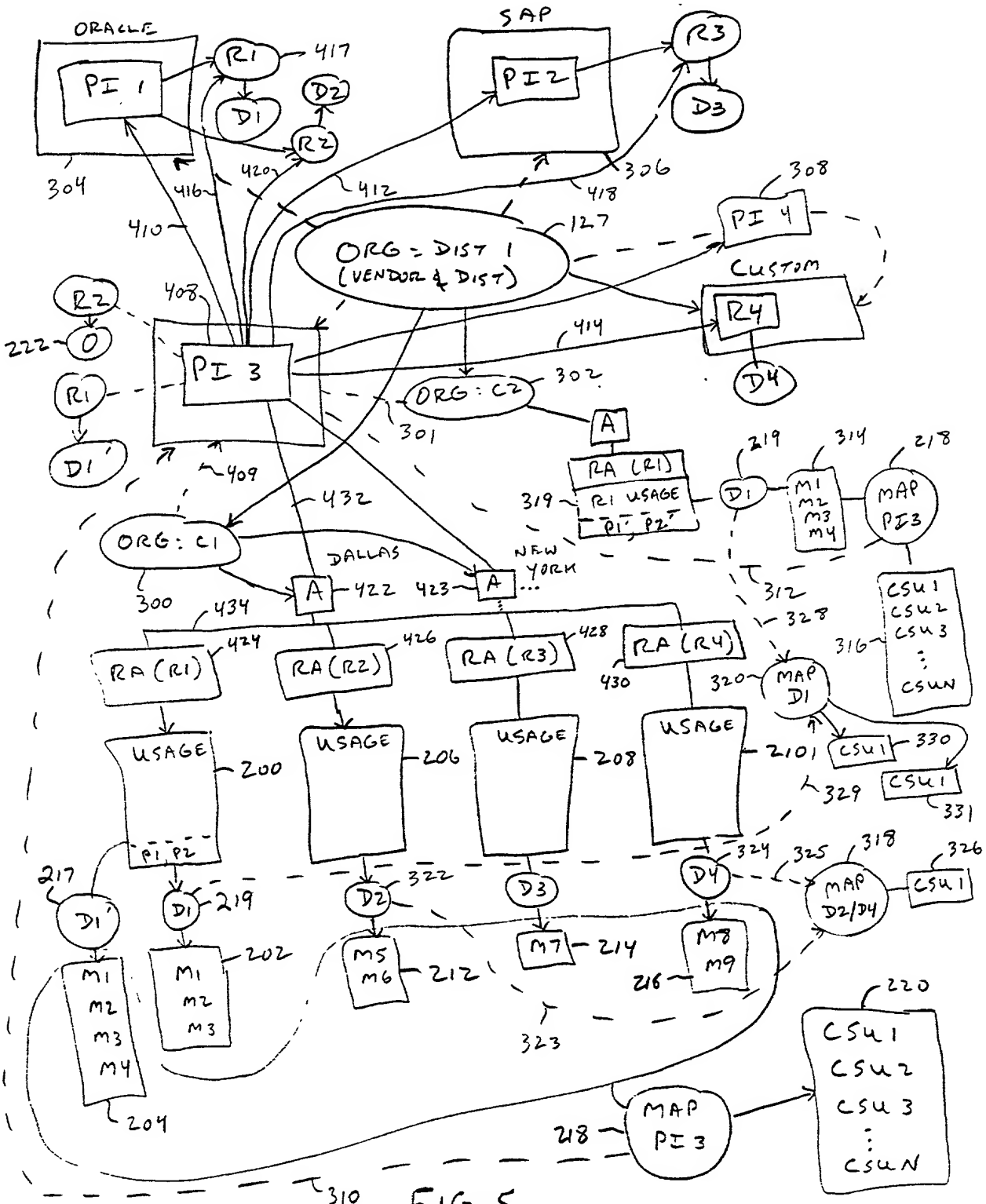

ORACLE
PI 1
R1
D1
D2
R2
417
304
416
420
412
SAP
PI 2
R3
D3
306
418
308
PI 4
410
ORG = DIST 1
(VENDOR & DIST)
127
Custom
R4
D4
R2
408
222
O
PI 3
414
R1
D1
ORG : C2
302
A
301
409
RA (R1)
R1 USAGE
P1, P2
319
219
M1
M2
M3
M4
314
MAP
PI 3
218
432
ORG : C1
300
DALLAS
A
422
423
A
NEW YORK
312
328
CSU1
CSU2
CSU3
CSUN
316
434
RA (R1)
424
RA (R2)
426
RA (R3)
428
RA (R4)
430
320
MAP
D1
USAGE
200
USAGE
206
USAGE
208
USAGE
210
CSU1
330
CSU1
331
329
P1 P2
217
D1
D1
219
202
M1
M2
M3
M4
204
D2
322
D3
D4
324
325
318
MAP
D2/D4
CSU1
326
M5
M6
212
M7
214
M8
M9
216
323
220
CSU1
CSU2
CSU3
CSUN
MAP
PI 3
218
310

FIG. 5

OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING

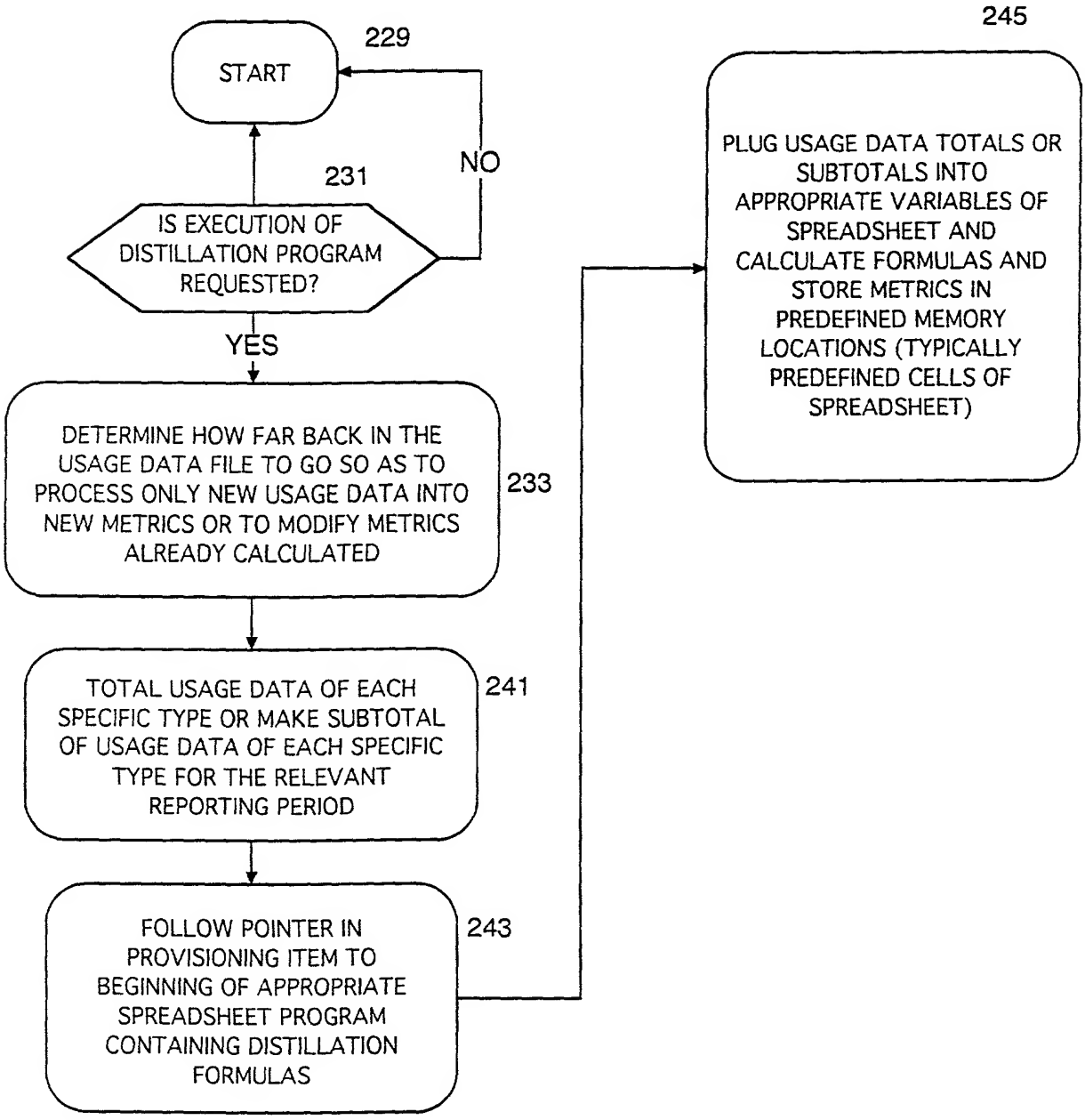


FIG. 6A

OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING USING A PROGRAMMABLE DISTILLATION PGM

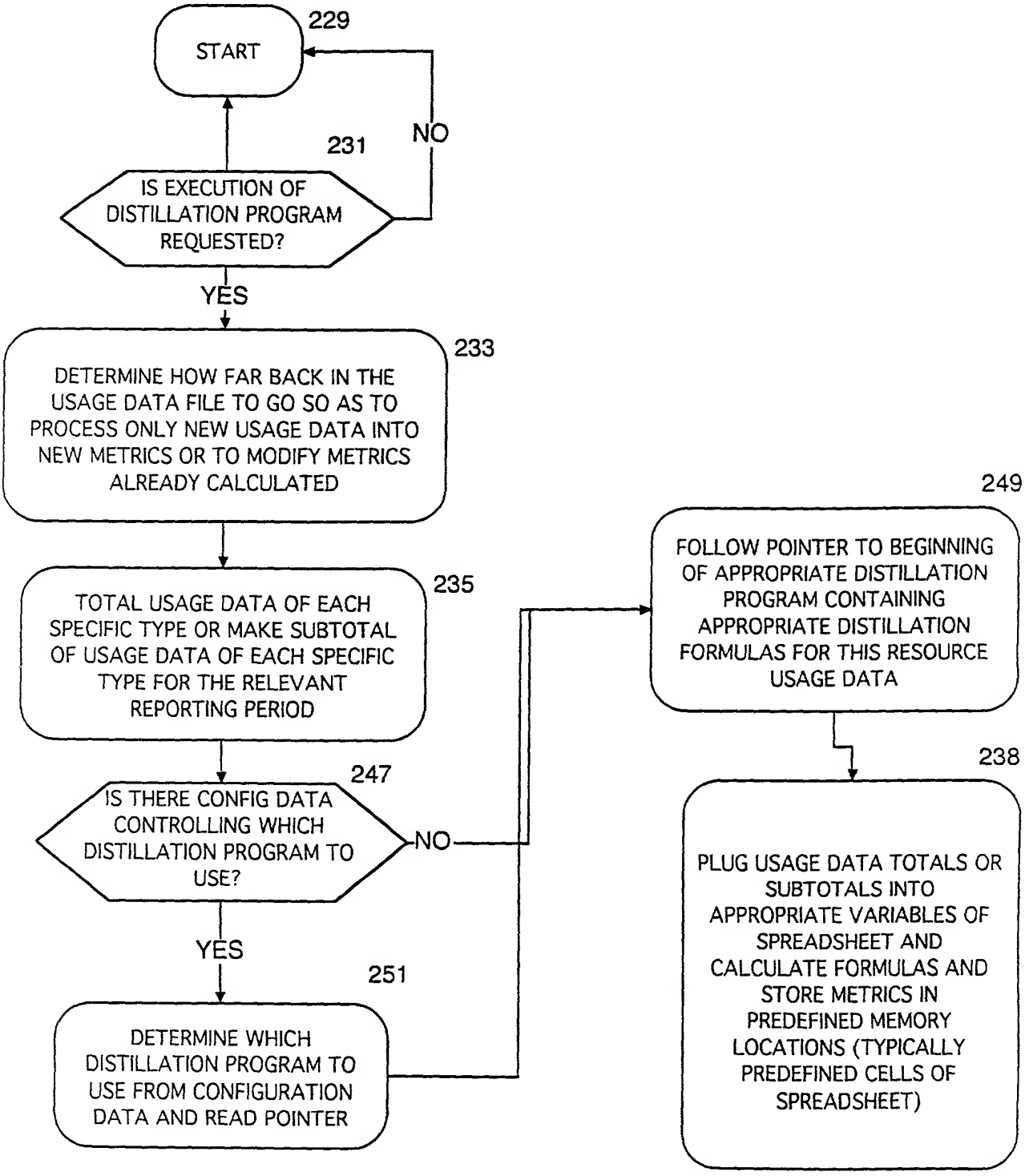


FIG. 6B

PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS OF THE CUSTOMER'S DESIGN

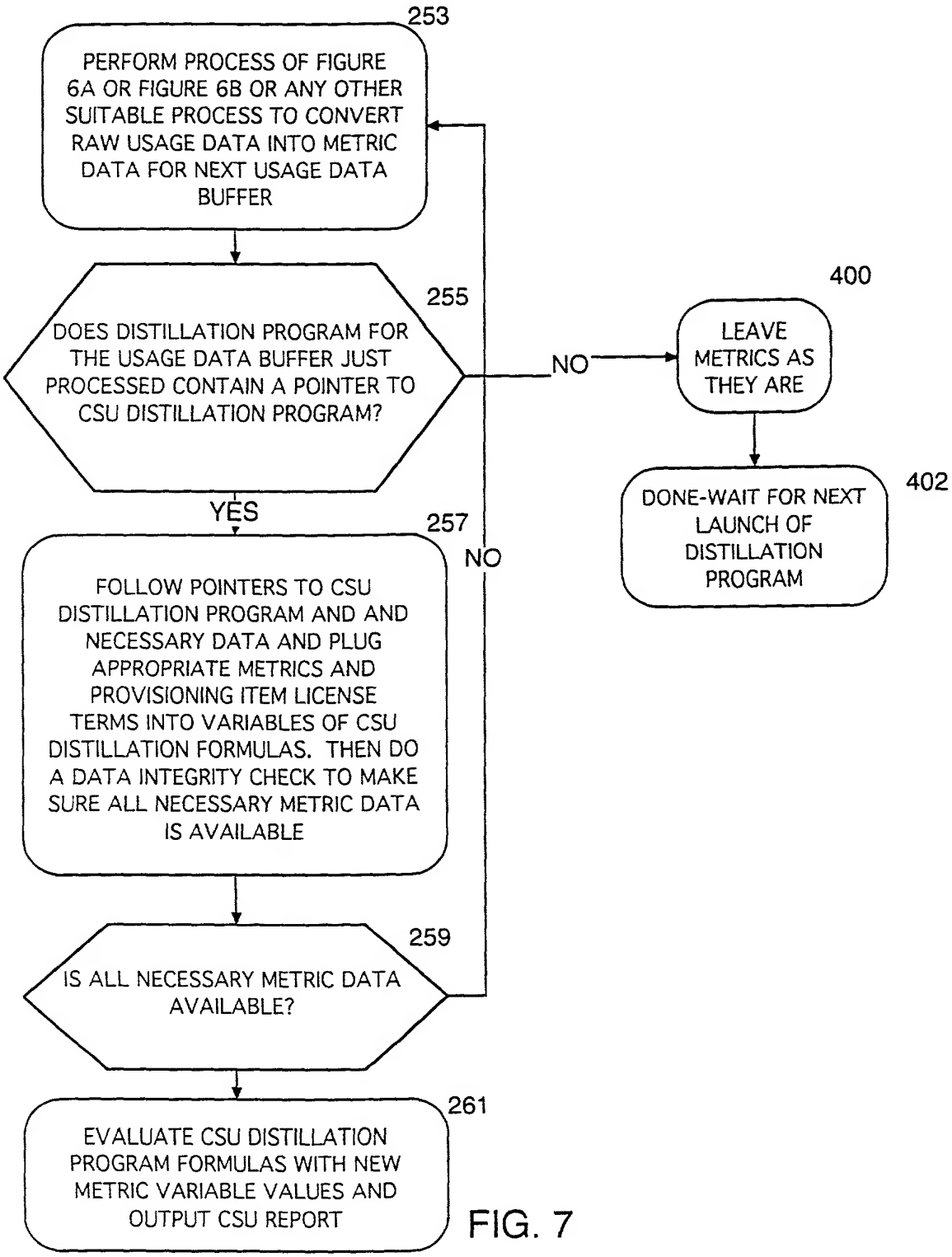


FIG. 7

Page 7 of 14 - 10004857

OVERALL PROCESS TO COLLECT RAW USAGE DATA IN A CENTRAL SERVER AND USE IT TO PREPARE METRICS AND PREPARE INVOICES OR REPORTS THEREFROM

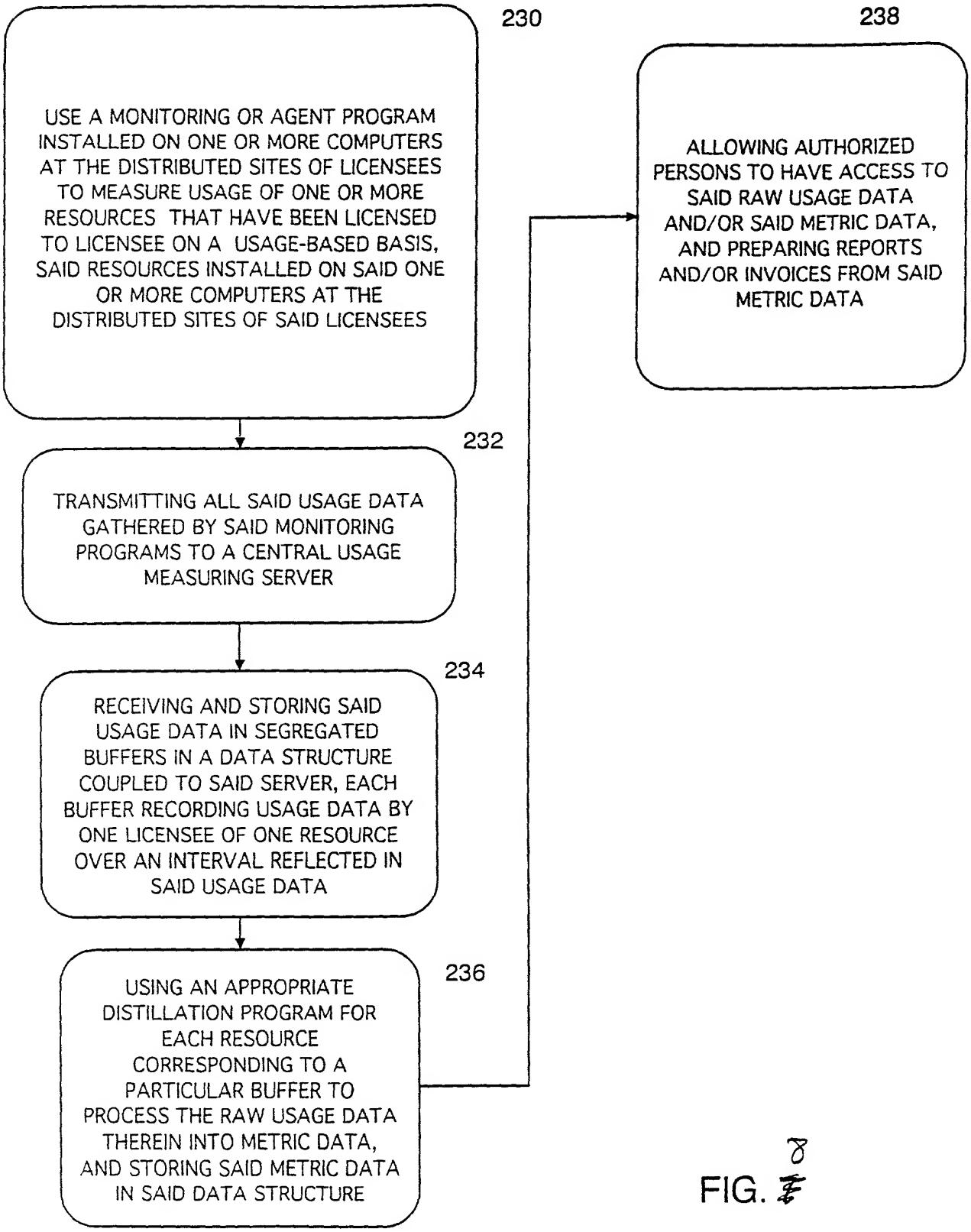


FIG. 8

EXHIBIT 2, Page 8 of 10

PROCESS TO BUILD USAGE MEASURING SERVER DATA STRUCTURE AND ALLOW RESTRICTED ACCESS THERETO

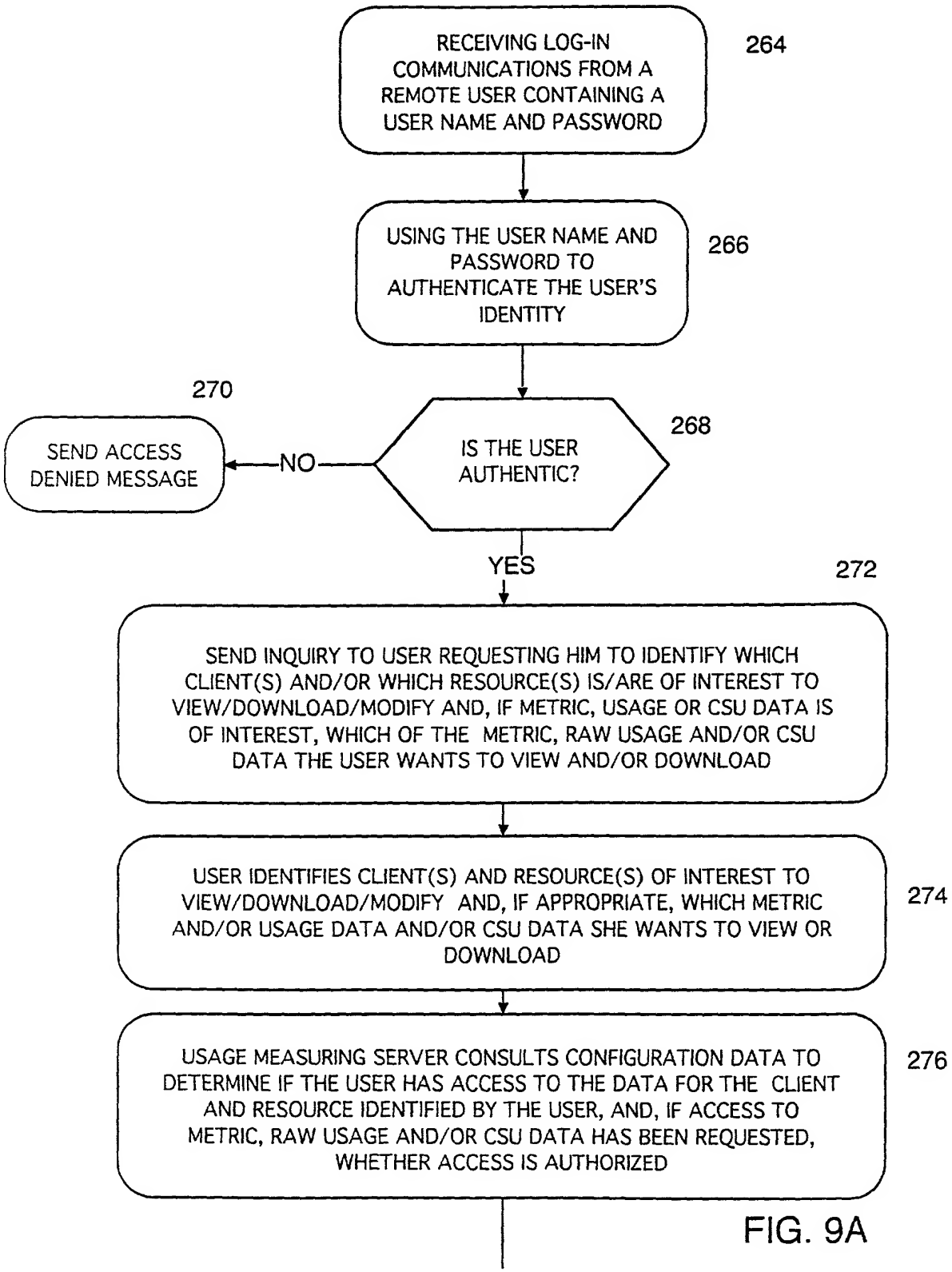


FIG. 9A

10004837 - 110104

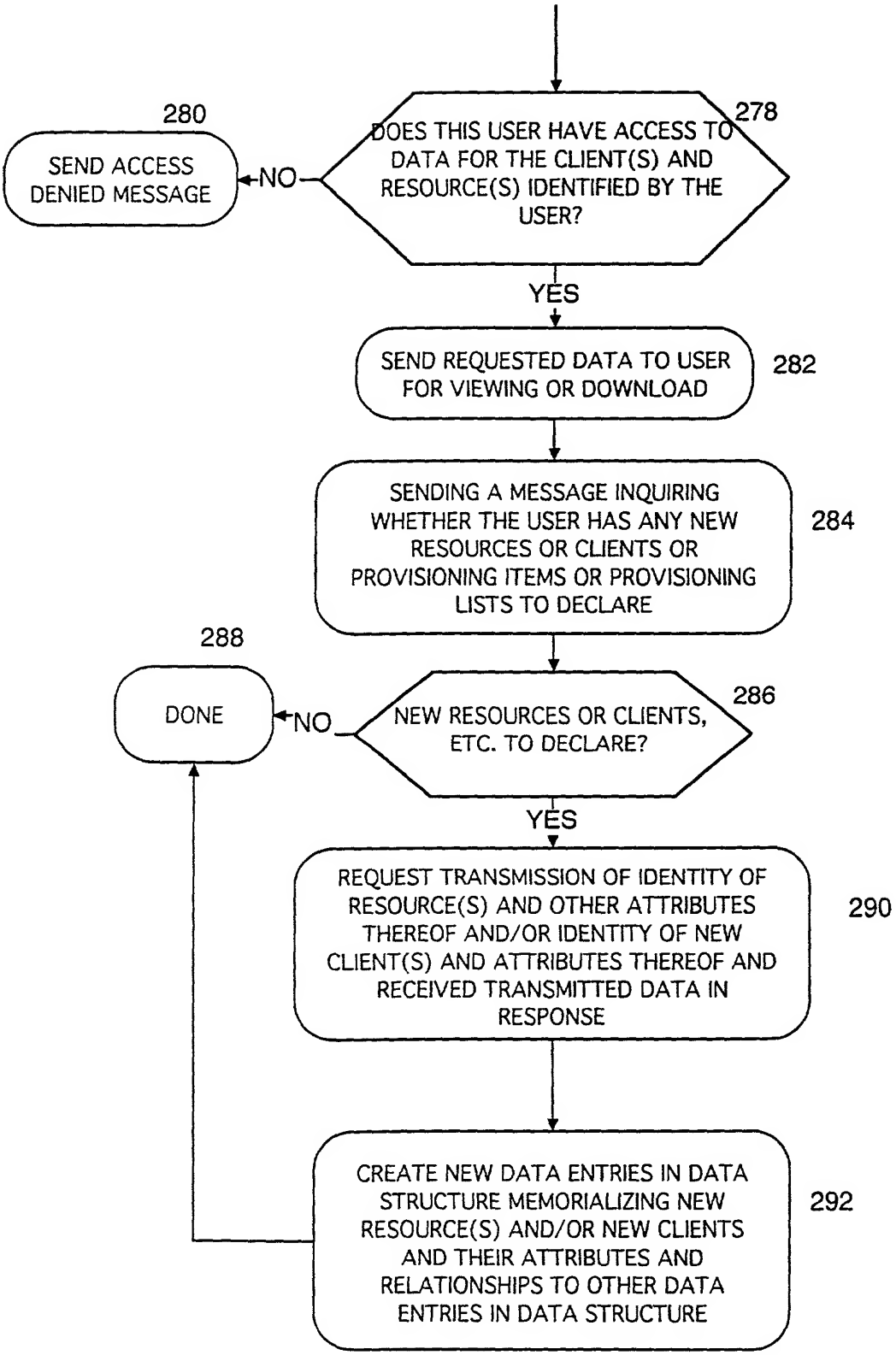

DOES THIS USER HAVE ACCESS TO DATA FOR THE CLIENT(S) AND RESOURCE(S) IDENTIFIED BY THE USER?
278
NO
SEND ACCESS DENIED MESSAGE
280
YES
SEND REQUESTED DATA TO USER FOR VIEWING OR DOWNLOAD
282
SENDING A MESSAGE INQUIRING WHETHER THE USER HAS ANY NEW RESOURCES OR CLIENTS OR PROVISIONING ITEMS OR PROVISIONING LISTS TO DECLARE
284
NEW RESOURCES OR CLIENTS, ETC. TO DECLARE?
286
NO
DONE
288
YES
REQUEST TRANSMISSION OF IDENTITY OF RESOURCE(S) AND OTHER ATTRIBUTES THEREOF AND/OR IDENTITY OF NEW CLIENT(S) AND ATTRIBUTES THEREOF AND RECEIVED TRANSMITTED DATA IN RESPONSE
290
CREATE NEW DATA ENTRIES IN DATA STRUCTURE MEMORIALIZING NEW RESOURCE(S) AND/OR NEW CLIENTS AND THEIR ATTRIBUTES AND RELATIONSHIPS TO OTHER DATA ENTRIES IN DATA STRUCTURE
292

FIG. 9B

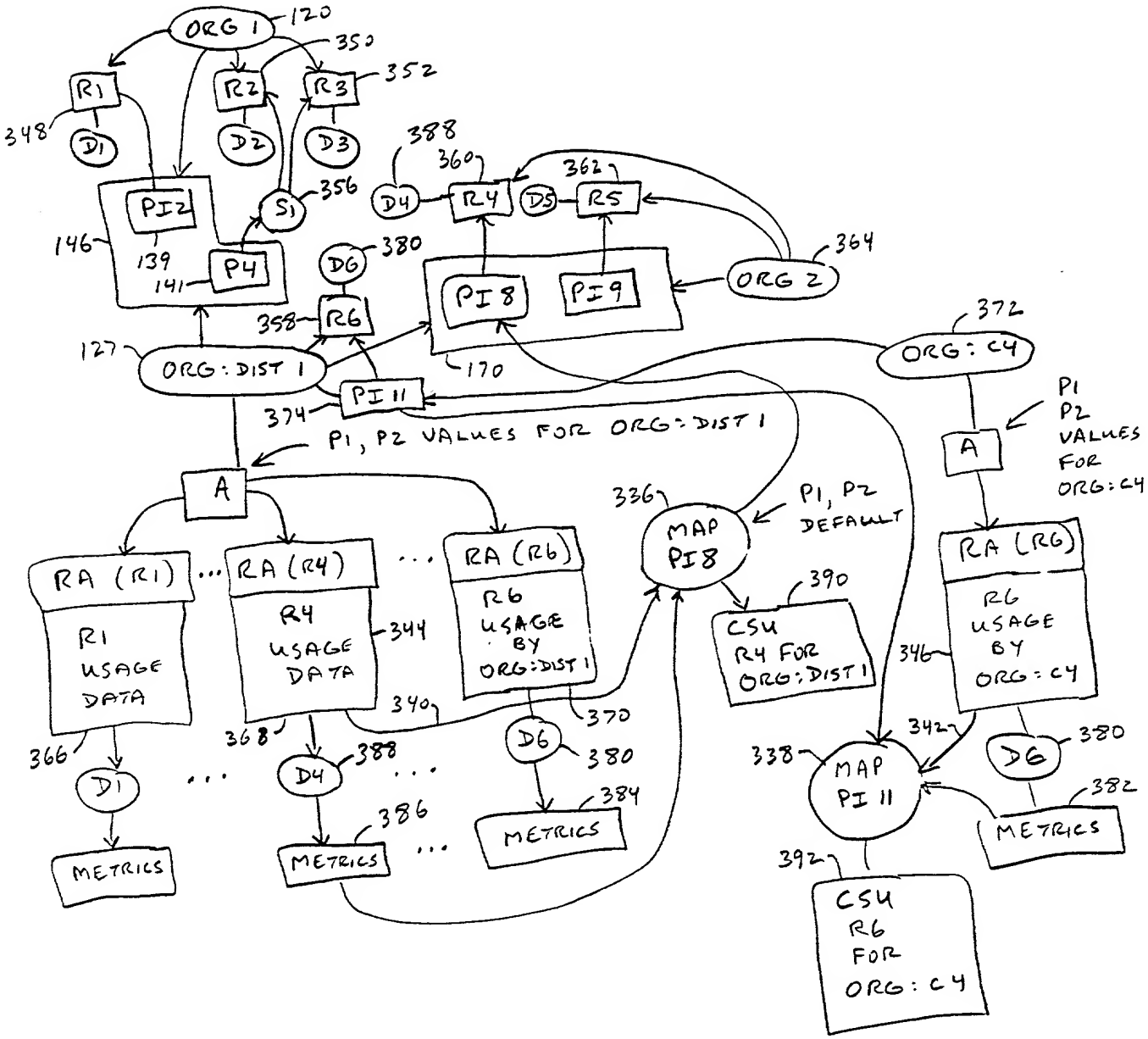

ORG 1
120
350
352
R1
R2
R3
348
D1
D2
D3
388
360
362
PI2
S1
356
D4
R4
D5
R5
146
139
141
P4
DG
380
364
PI 8
PI 9
ORG 2
358
R6
372
127
ORG : DIST 1
170
ORG : C4
PI 1
374
P1
P2
VALUES
FOR
ORG : C4
P1, P2 VALUES FOR ORG : DIST 1
A
A
336
MAP
PI8
P1, P2
DEFAULT
RA (R1)
RA (R4)
RA (R6)
RA (RG)
R1
USAGE
DATA
R4
USAGE
DATA
344
R6
USAGE
BY
ORG : DIST 1
390
CSU
R4 FOR
ORG : DIST 1
346
R6
USAGE
BY
ORG : C4
340
370
342
366
368
D1
D4
388
D6
380
D6
380
338
MAP
PI 11
382
METRICS
386
384
METRICS
METRICS
METRICS
392
CSU
R6
FOR
ORG : C4

FIG. 10

ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO PROVISIONING ITEM DETAILING LICENSE TERMS

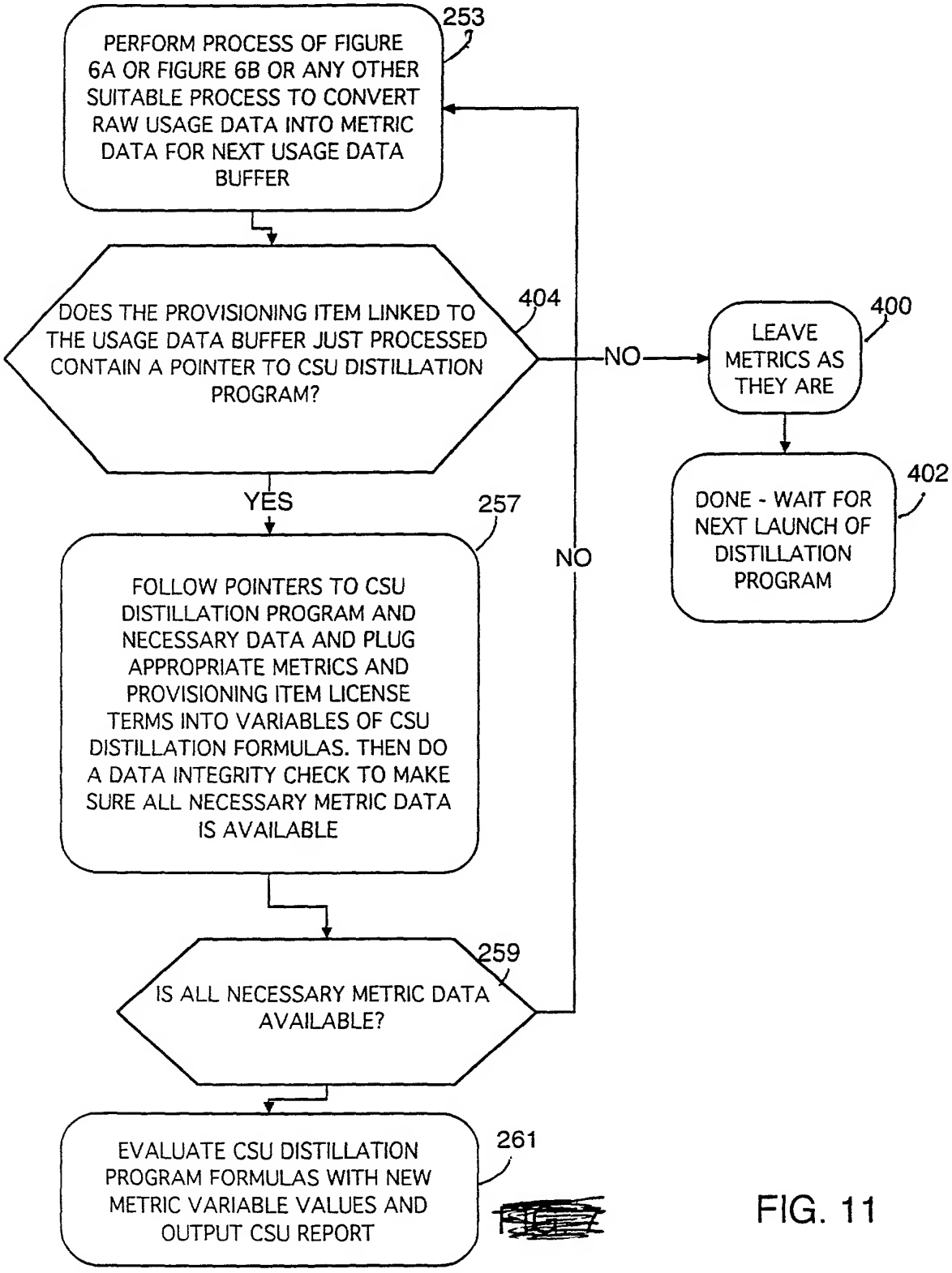


FIG. 11

10004037.1101

ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO THE USAGE DATA BUFFER OF EACH CLIENT THAT WANTS CSU BASED REPORTS

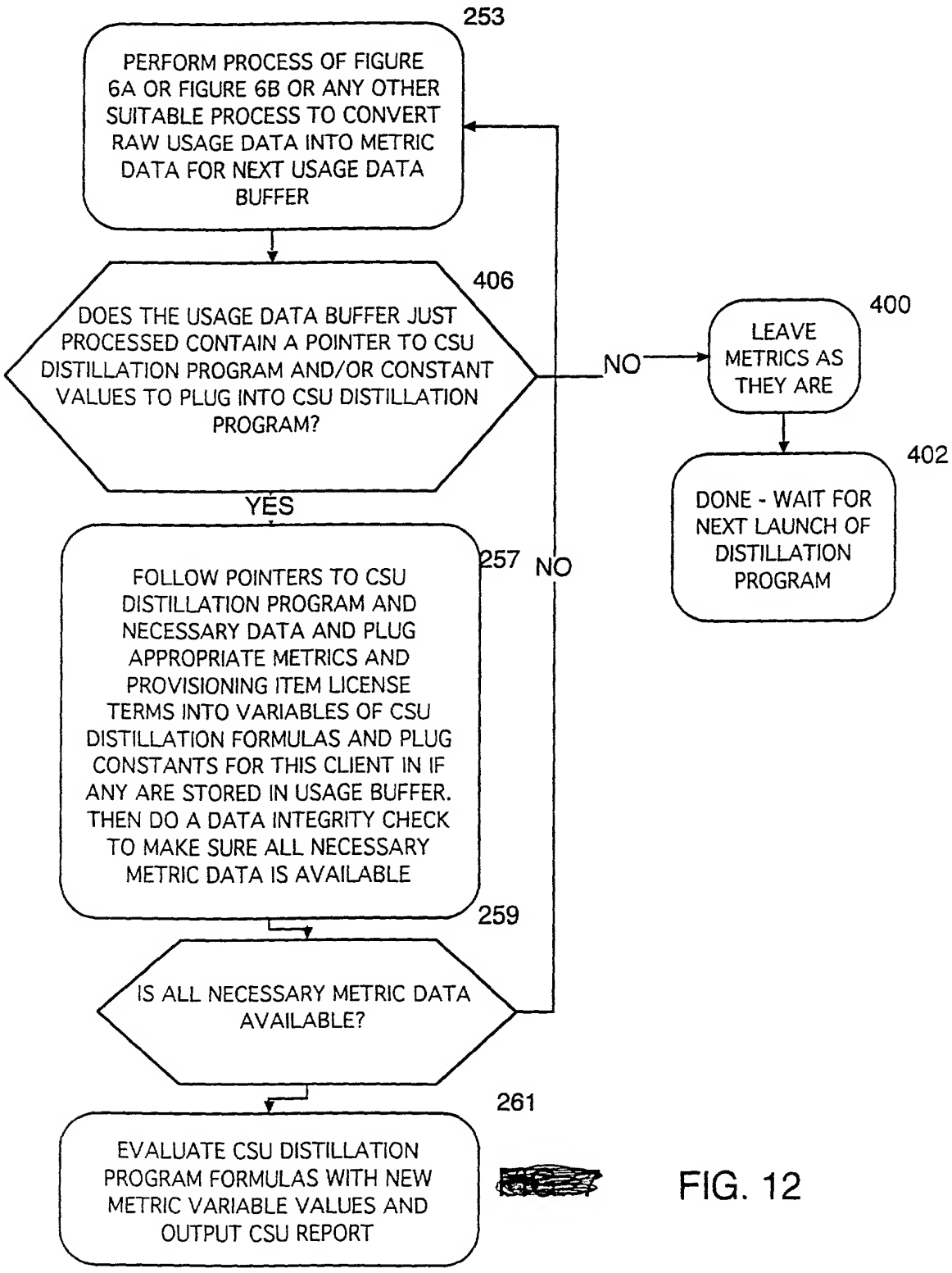


FIG. 12

PROCESS TO CREATE DATA STRUCTURE TO SUPPORT SUITE LICENSING AND TO USE THE DATA STRUCTURE TO IMPLEMENT SUITE LICENSING

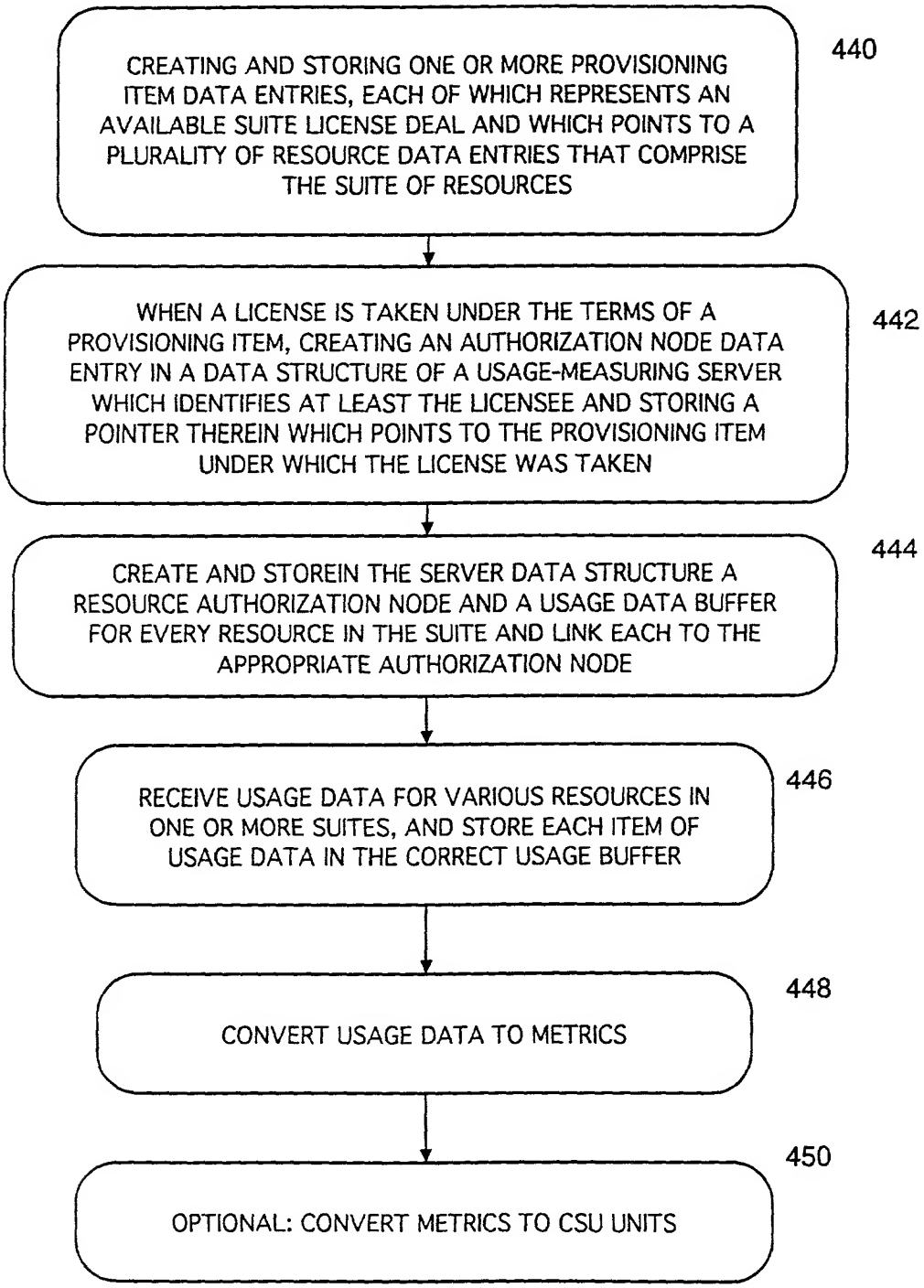


FIG. 13

EXHIBIT 1004 - Page 27 of 104

ONE STOP SHOPPING PROCESS TO DETERMINE ALL AVAILABLE LICENSE DEALS ON A PARTICULAR RESOURCE

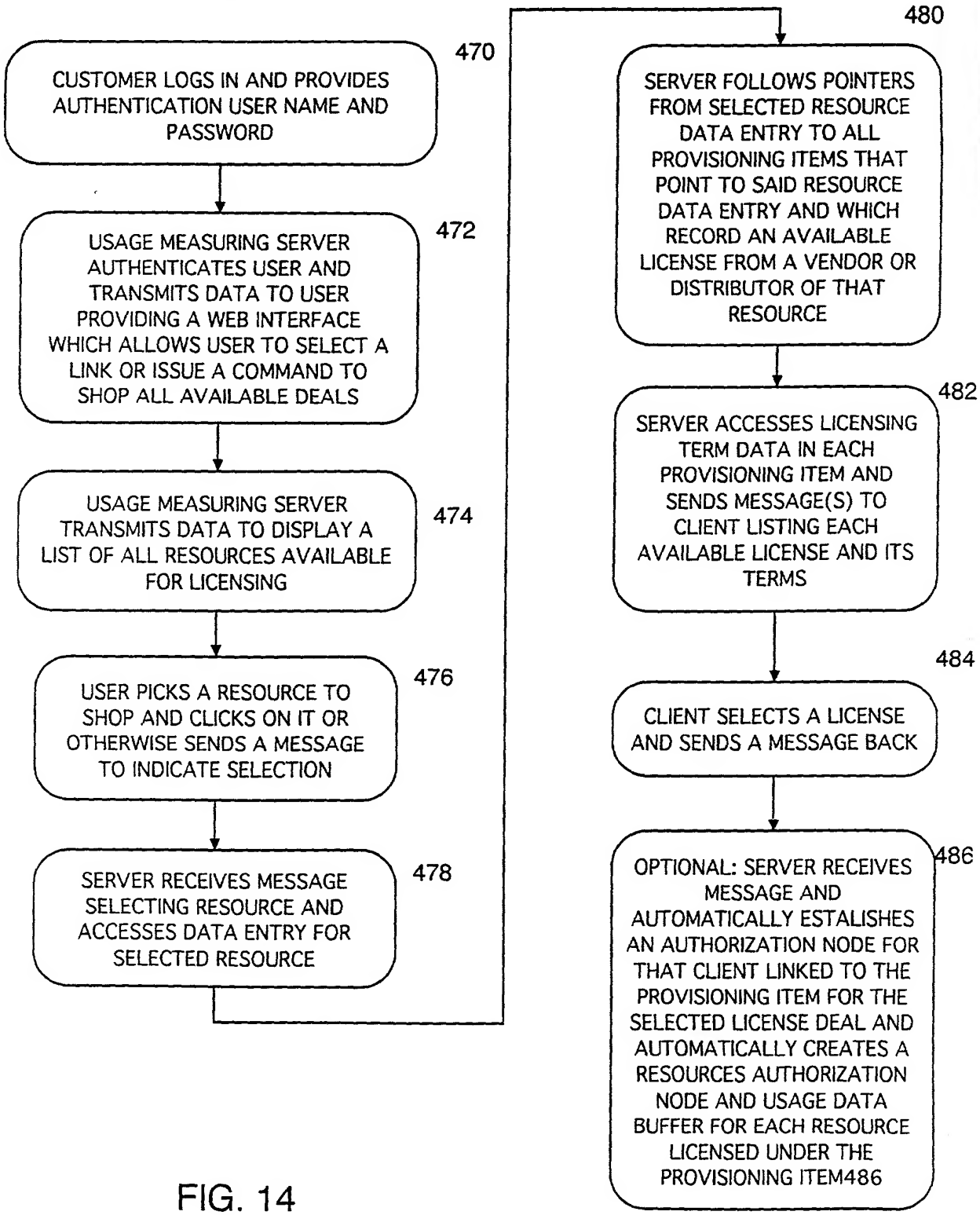


FIG. 14

Patent Application Publication Aug. 7, 2003 Sheet 7 of 9 US 2003/0149781 A1

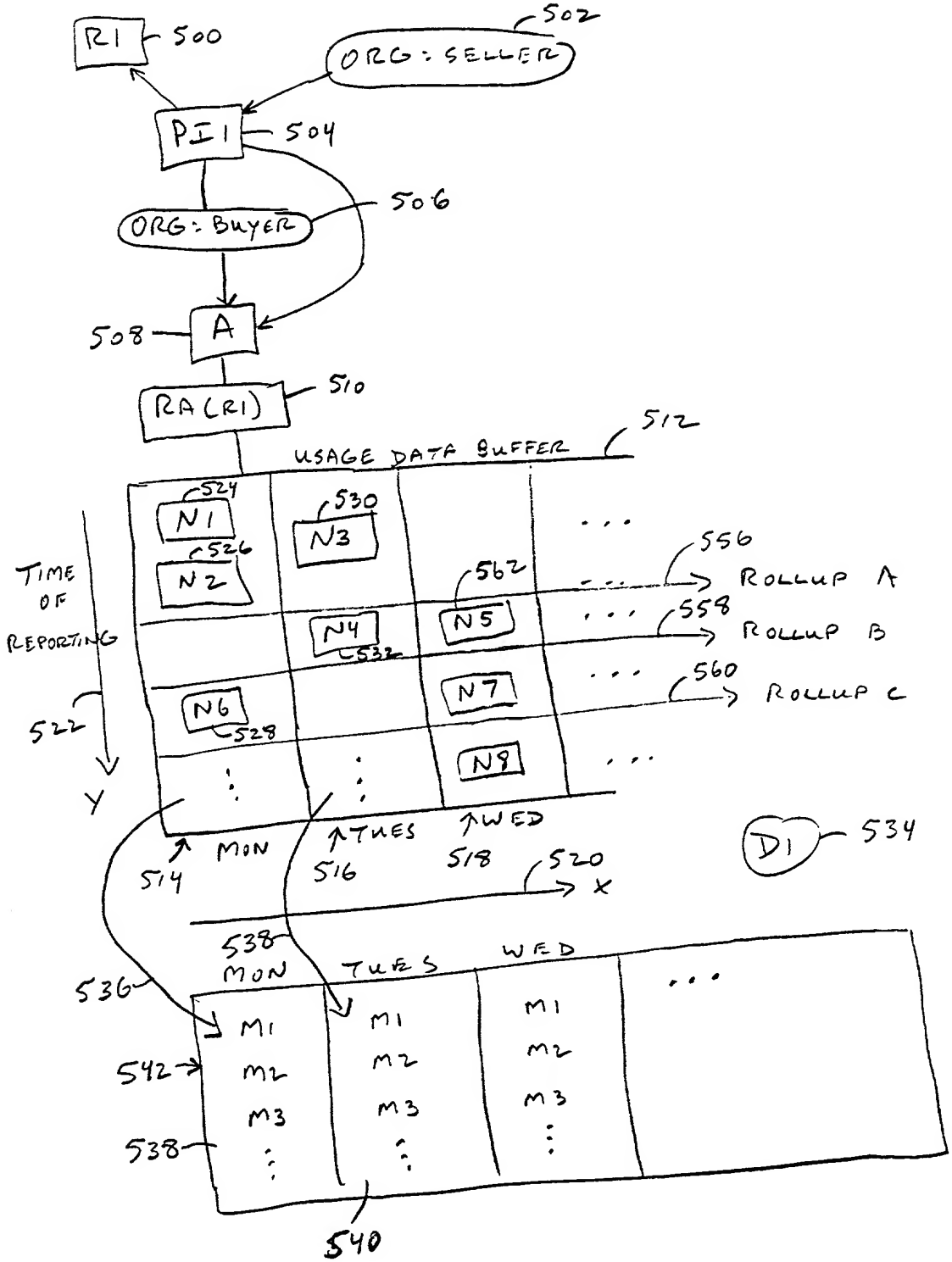

R1
500
ORG : SELLER
502
PI 1
504
ORG : BUYER
506
508
A
RA (R1)
510
USAGE DATA BUFFER
512
N1
524
N2
526
N3
530
N4
532
N5
562
N6
528
N7
N9
TIME OF REPORTING
522
Y
MON
TUES
WED
514
516
518
520
X
556
ROLLUP A
558
ROLLUP B
560
ROLLUP C
D1
534
536
538
MON
TUES
WED
M1
M2
M3
542
538
540

FIG. 15

PROCESS TO COLLECT USAGE DATA, PARTITION IT INTO TIME SEGMENTS AND GENERATE METRICS THEREFROM

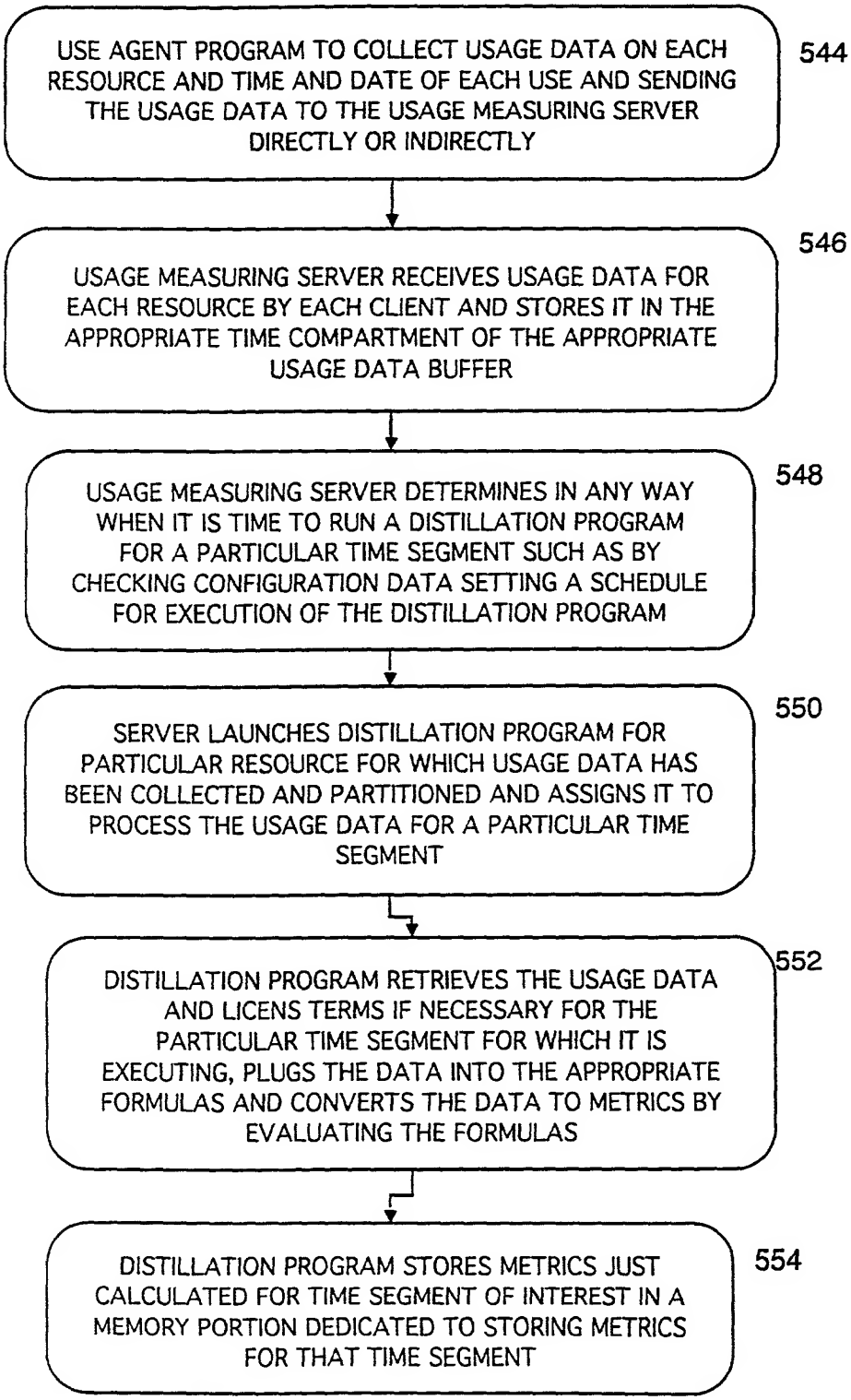


FIG. 16

10/04/2007 JDOUGLAS

ROLLUP A ID 39

	MON	TUES	WED	...
M1 = CPU	10	1	0	...
M2 = DOCS	500	50	0	...
M3 = # PGS	759	71	0	...
	⋮	⋮	⋮	

FIG. 17

ALTERNATIVE ROLLUP B ID 40

MON	TUES	WED
0	3	2
0	70	40
0	139	96

FIG. 18

PREFERRED ROLLUP B ID 50

MON	TUES	WED	
10	4	2	
500	120	40	
759	210	96	

FIG. 19

ALTERNATIVE ROLLUP B ID 40

MON	TUES	WED
0	4	2
0	120	40
0	210	96

FIG. 20

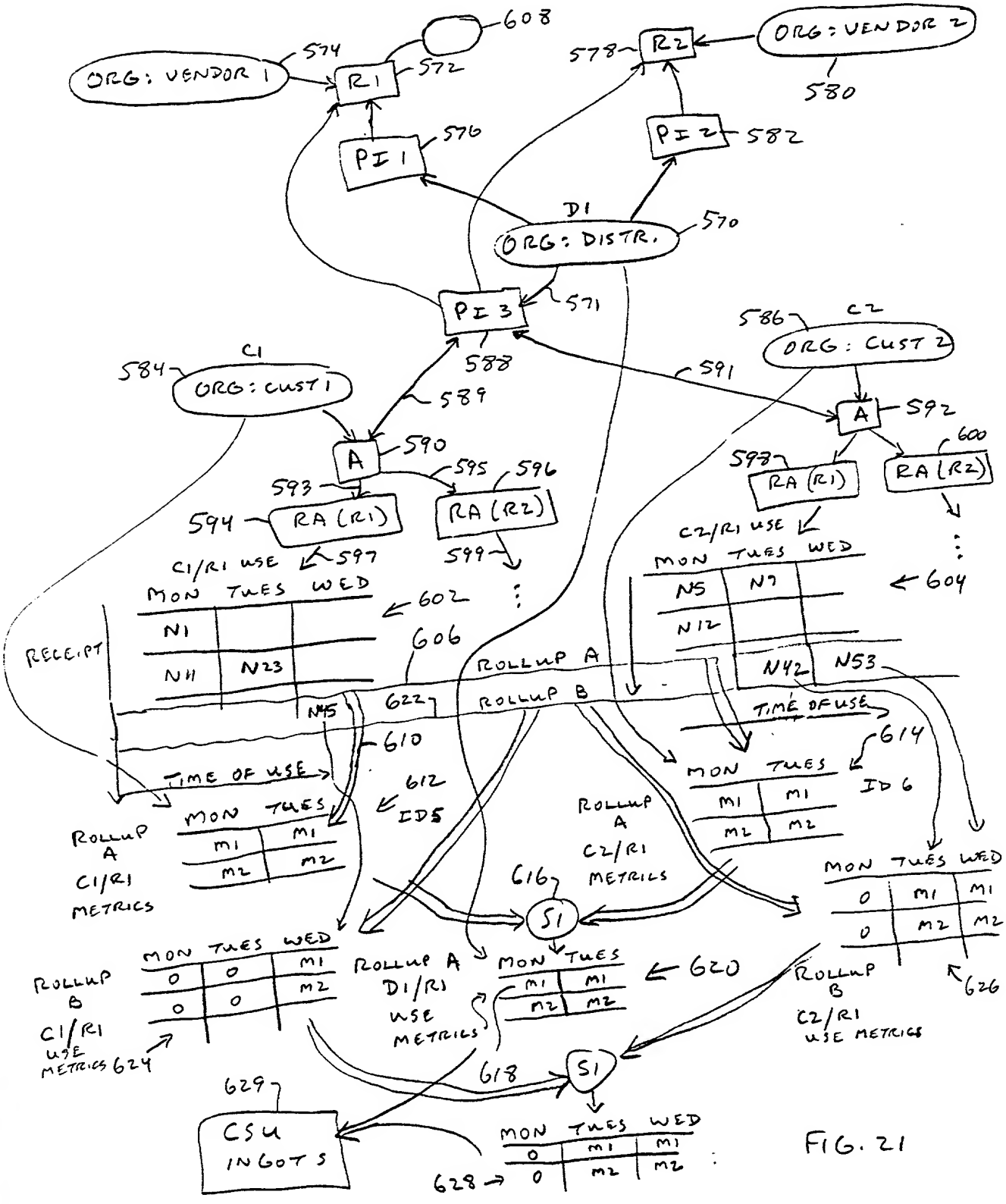

ORG: VENDOR 1
574
608
R1
572
578
R2
ORG: VENDOR 2
580
PI 1
576
PI 2
582
D1
ORG: DISTR.
570
PI 3
571
C2
586
ORG: CUST 2
C1
584
ORG: CUST 1
588
589
591
A
590
A
592
593
595
596
RA (R1)
RA (R2)
594
597
599
600
598
C1/R1 USE
MON TUES WED
N1
N11
N23
602
606
RECEIPT
ROLLUP A
ROLLUP B
N5
622
610
TIME OF USE
612
ID5
ROLLUP A C1/R1 METRICS
C2/R1 USE
MON TUES WED
N5
N7
N12
N42
N53
604
TIME OF USE
614
ID 6
ROLLUP A C2/R1 METRICS
616
S1
MON TUES WED
0
0
M1
M2
ROLLUP B C1/R1 USE METRICS
624
ROLLUP A D1/R1 USE METRICS
MON TUES
620
ROLLUP B C2/R1 USE METRICS
626
618
S1
629
CSU INGOTS
MON TUES WED
628

FIG. 21

PROCESS FOR ONE PROTOCOL ACCESS TO USAGE/METRIC/CSU DATA FOR ALL LICENSEES OF A LICENSOR FROM A USAGE MEASURING SERVER

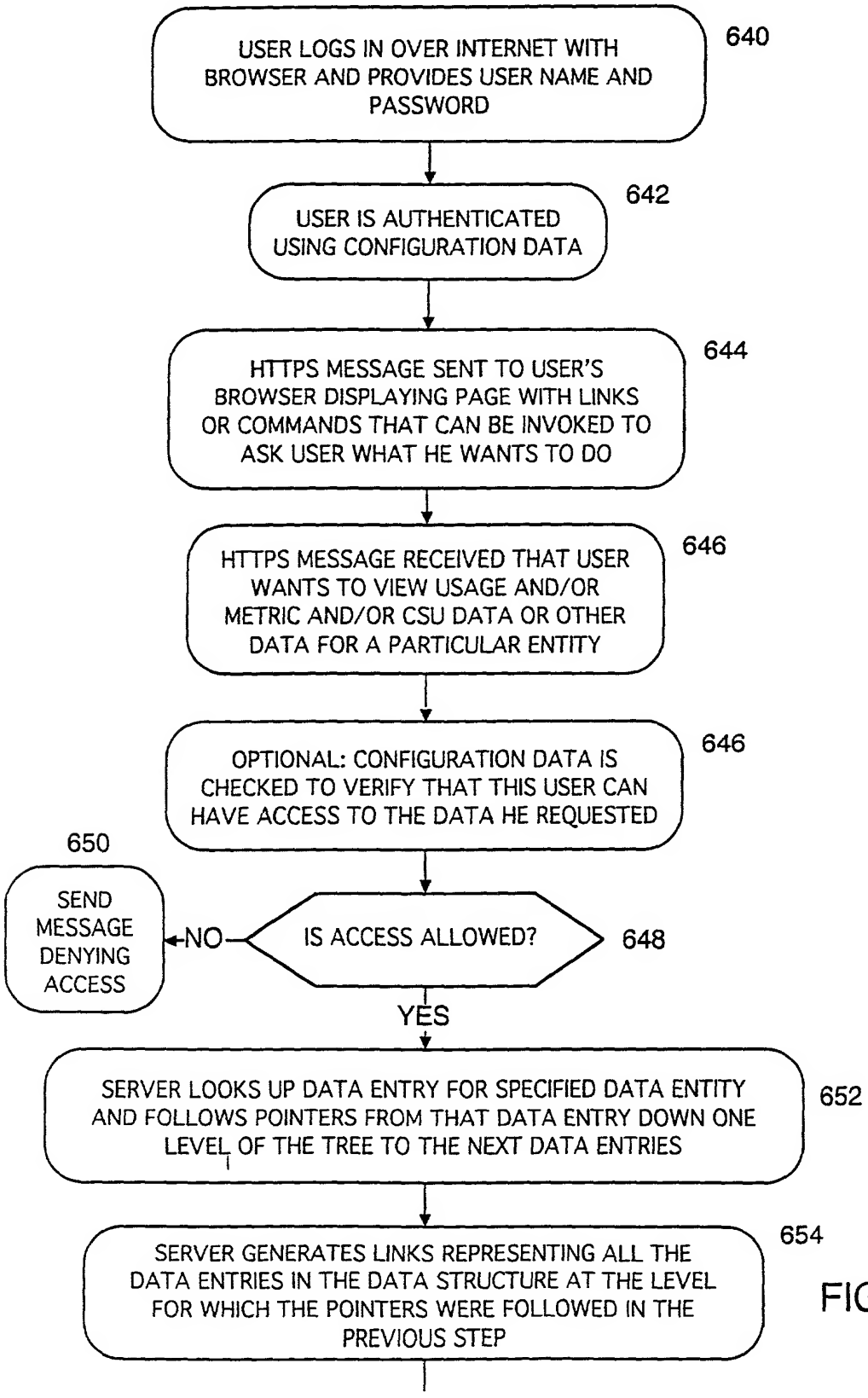


FIG. 22A

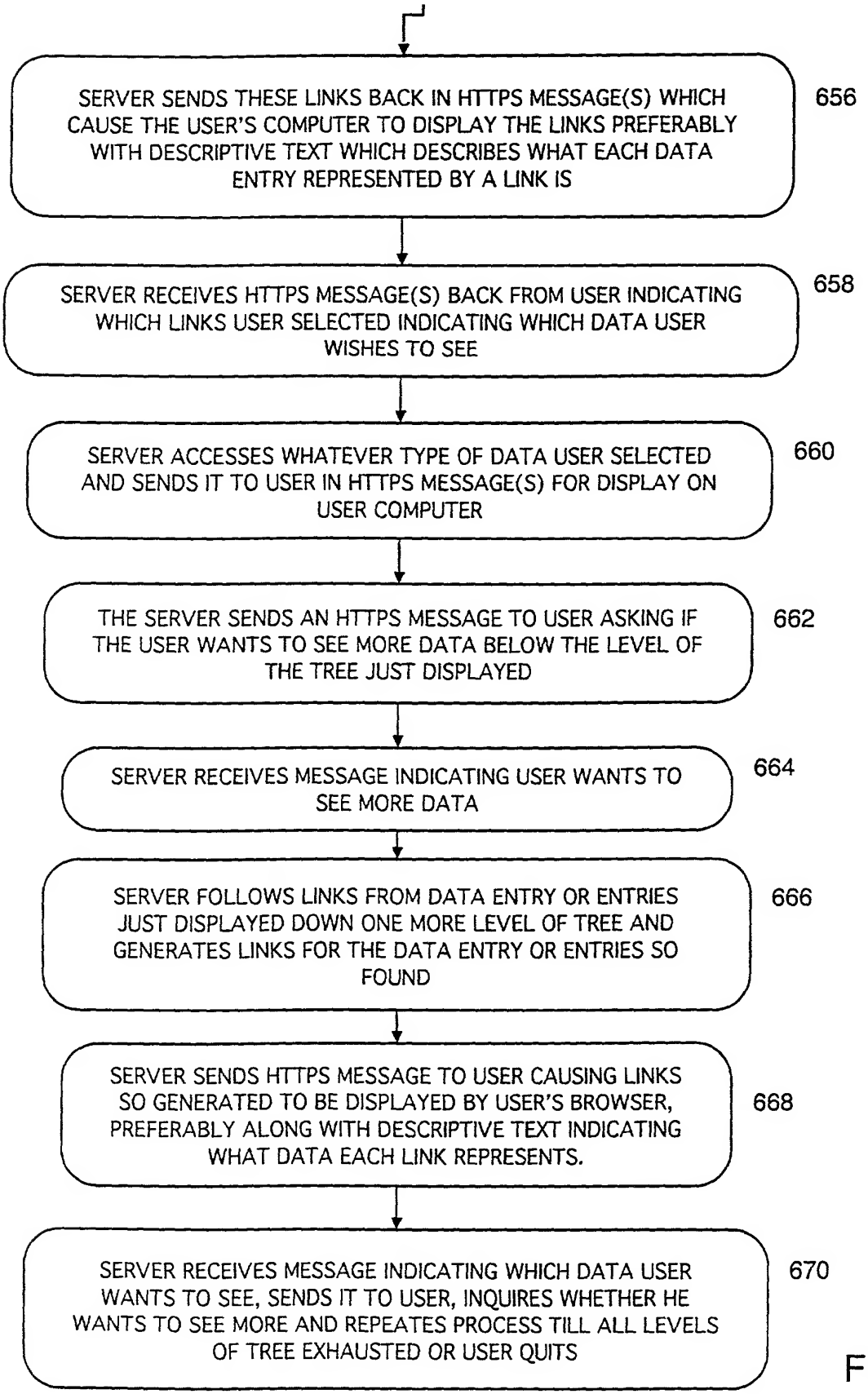
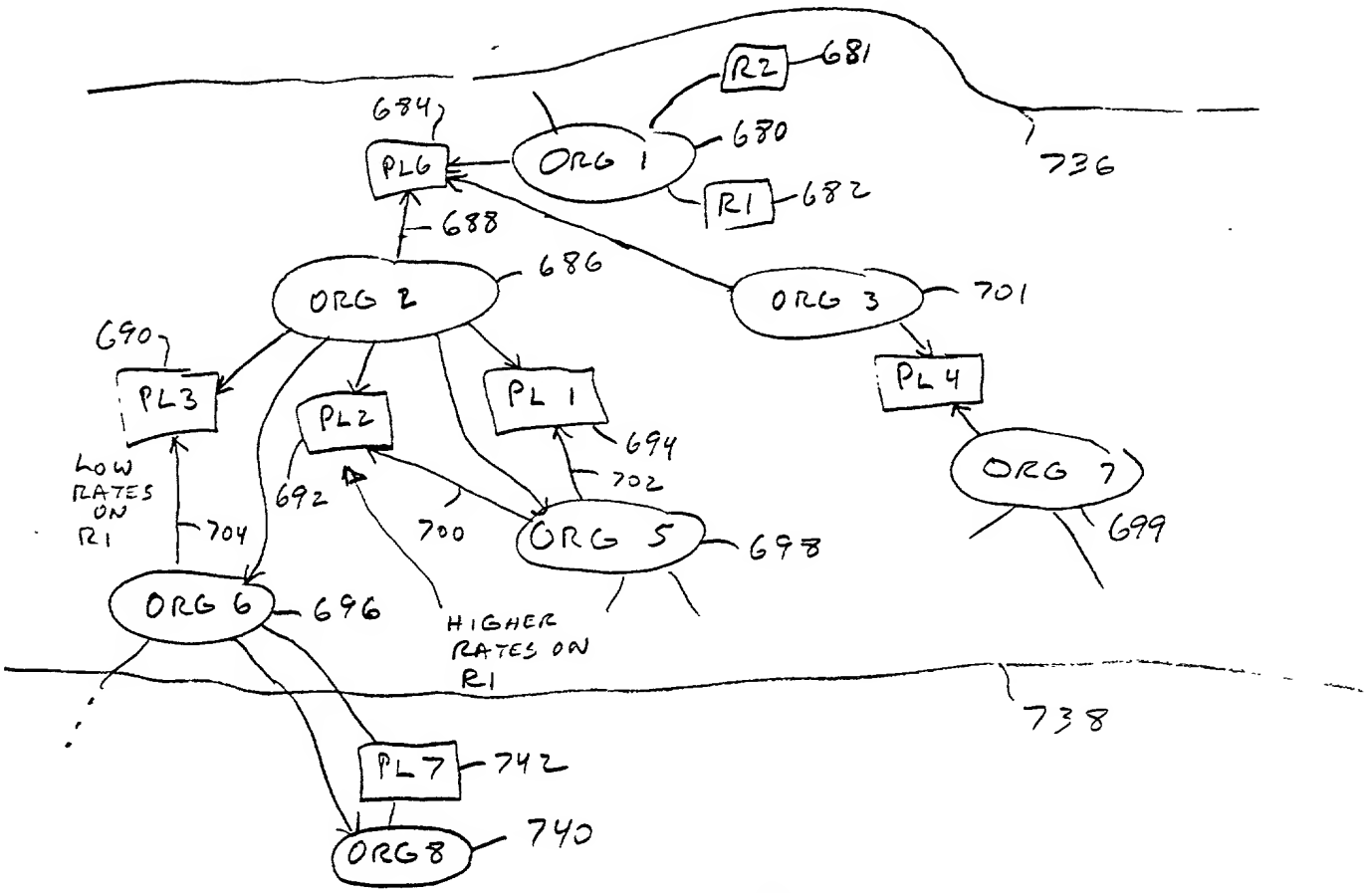


FIG. 22

EXHIBIT 1004 - 1004037



SECURITY BARRIERS

FIG. 23

A PROCESS TO IMPLEMENT SECURITY BARRIERS TO PREVENT USERS FROM VIEWING DATA IN A USAGE MEASURING SERVER DATA STRUCTURE THAT THE USER IS NOT AUTHORIZED TO VIEW

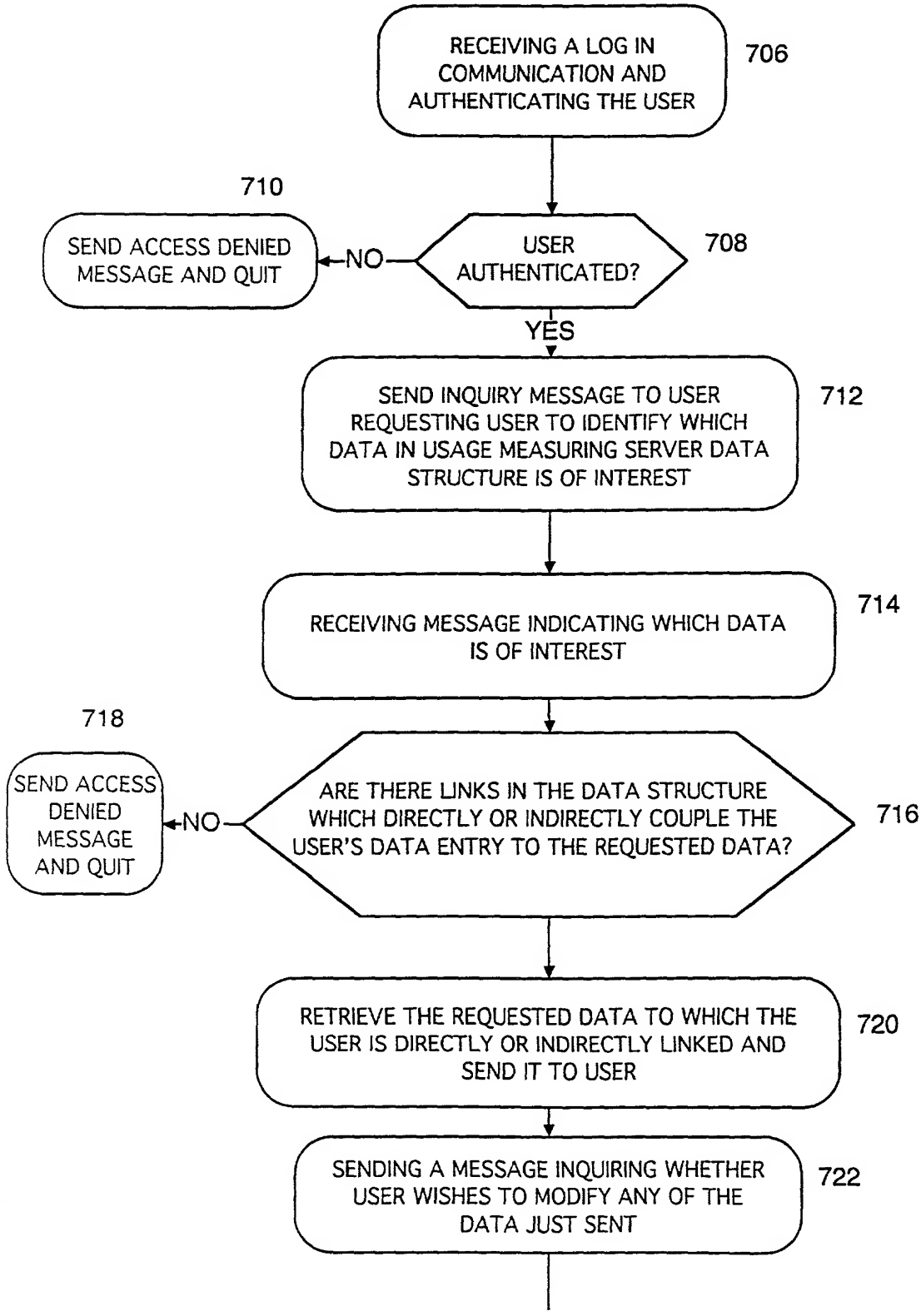


FIG. 24A

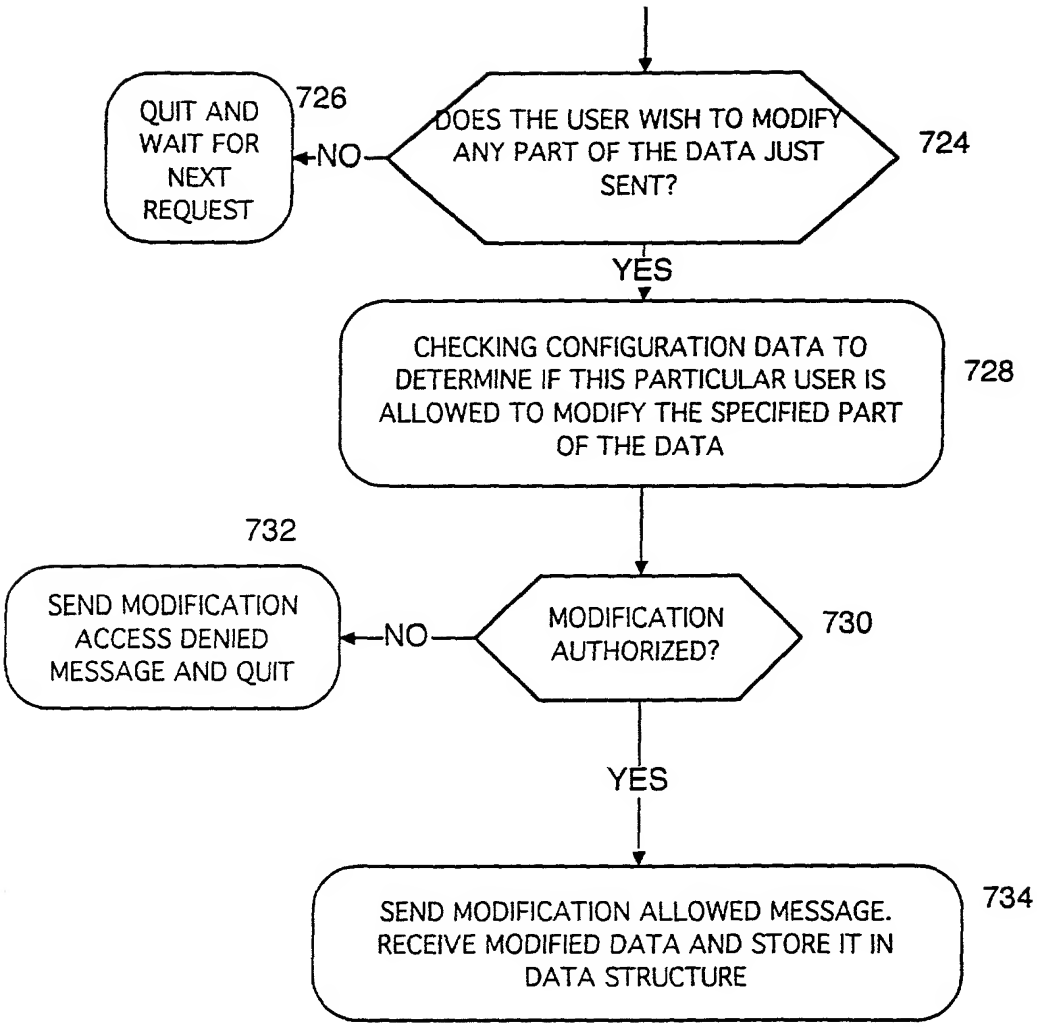


FIG. 24B

10004037.1400101

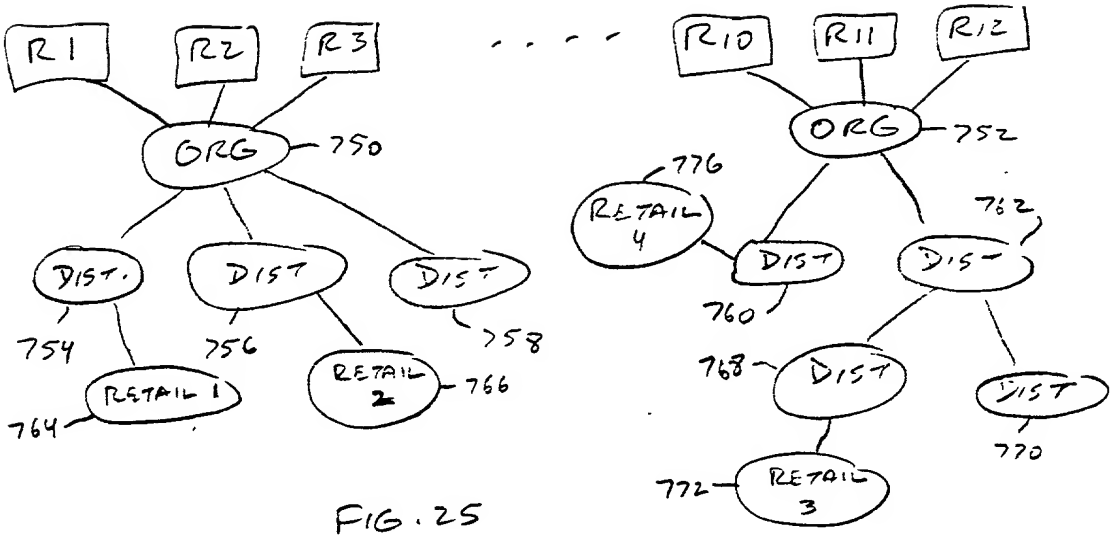

R1
R2
R3
R10
R11
R12
ORG
750
ORG
752
776
RETAIL 4
762
DIST.
DIST
DIST
DIST
DIST
754
756
758
760
RETAIL 1
RETAIL 2
766
764
768
DIST
DIST
770
772
RETAIL 3

FIG. 25

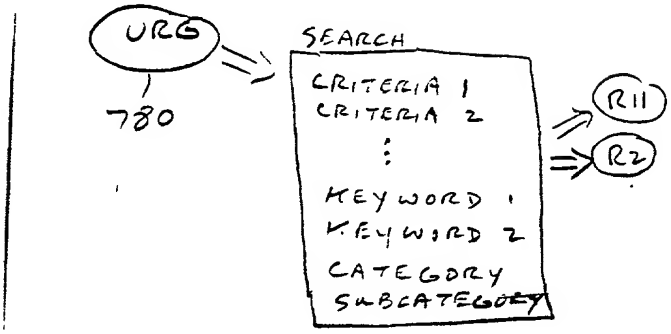

ORG
780
SEARCH
CRITERIA 1
CRITERIA 2
KEYWORD 1
KEYWORD 2
CATEGORY
SUBCATEGORY
R11
R2

FIG. 26

10CT-2004001

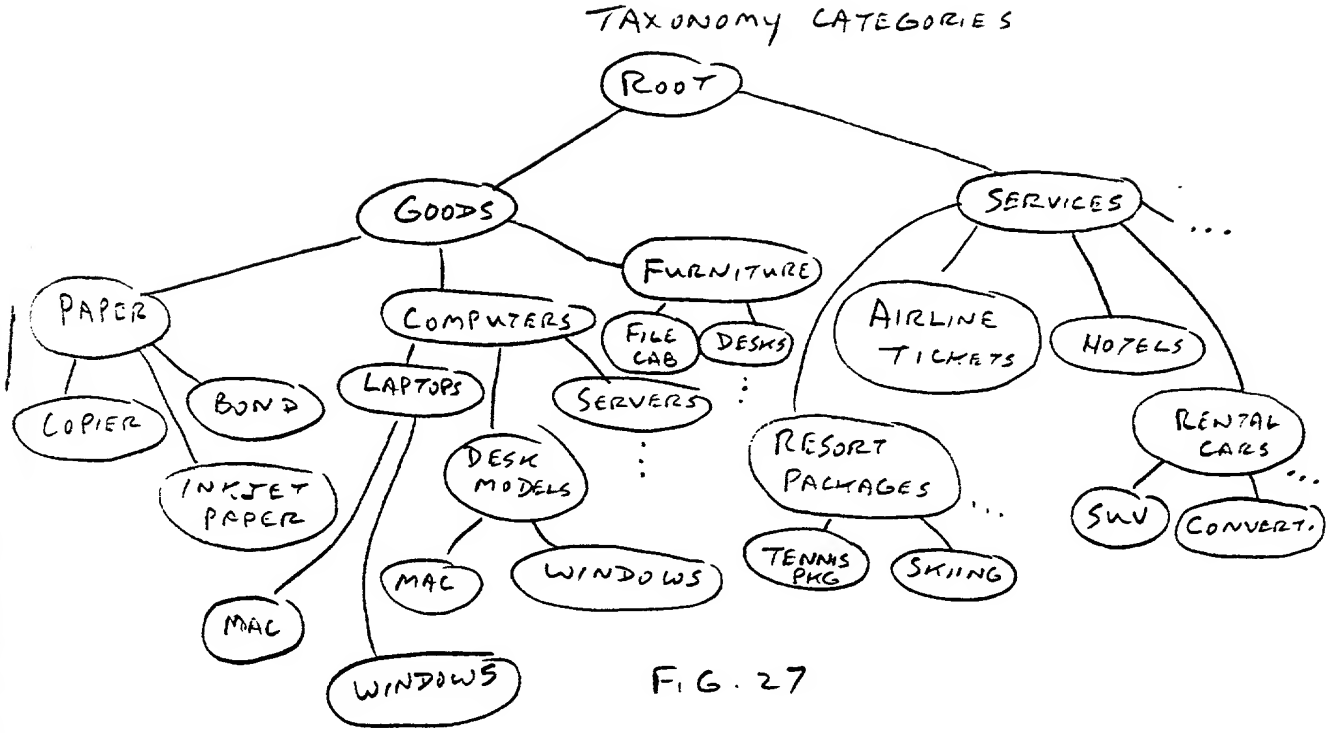


FIG. 27

SERVER PROCESSING TO IMPLEMENT ONE-STOP SHOPPING SEARCHING OF THE DATA STRUCTURE BASED UPON USER-DEFINED CRITERIA

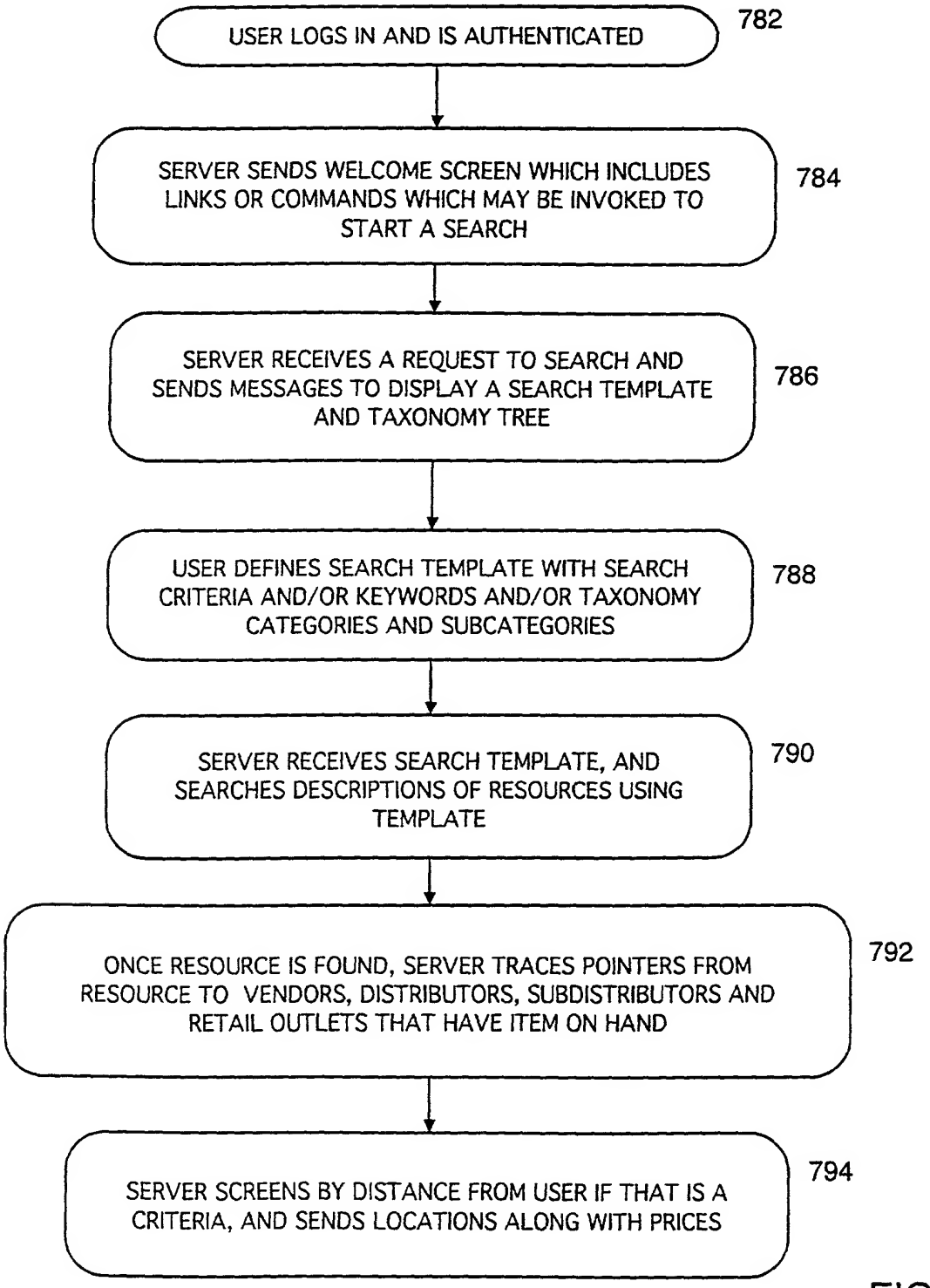


FIG. 28

EXHIBIT 1004, Page 704 of 1014